

FORM PTO-1449
REV. 7-80U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

4878.0020

07/987,352

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

John P. Hancock and Ralph A. McClelland

FILING DATE

27 December 1992

GROUP

GROUP 340

3404

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WCD	FA	5,042,271	8/1991	Manz	62	473	
WCD	FB	07/579,779	Filed 9/1990	Hancock & McClelland ? ↓	62	292	
WCD	FC	4,903,499	2/1990	Merritt	62	149	
WCD	FD	2,511,967	6/1950	Campbell	183	83	
WCD	FE	3,811,291	5/1974	Schibbye	62	84	
WCD	FF	3,874,192	4/1975	Kato	62	473	
WCD	FG	3,978,685	9/1976	Taylor	62	471	
WCD	FH	4,537,038	8/1985	Alsenz, et al.	62	110	
WCD	FI	4,934,390	6/1990	Sapp	134	22.18	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
WCD	AL	2,056,646A ✓	18 March 1991	United Kingdom	—	—		
WCD	AM	0,071,062 ✓	9 Feb 1983	European	—	—		
WCD	AN	0,313,079 ✓	26 April 1989	European	—	—		
	AO							
	AP							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

DATE CONSIDERED

William C. Decker

7-13-93

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

HM PTO-1449
7-80

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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INFORMATION DISCLOSURE STATEMENT

see several sheets if necessary

APPLICANT

John P. Hancock and Ralph A. McClelland #5

FILING DATE

7 December 1992

GROUP

3404

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ncv	AA 4,261,178	4/1981	Cain	62	149	
ncv	AB 4,363,222	12/1982	Cain	62	292	
ncv	AC 4,364,236	12/1982	Lower	62	77	
ncv	AD 4,441,330	4/1984	Lower	62	149	
ncv	AE 4,523,897	6/1985	Lower	417	292	
ncv	AF 4,688,388	8/1987	Lower	62	15	
ncv	AG 4,768,347	9/1988	Manz	62	340	
ncv	AH 4,798,055	1/1989	Murray	62	37	
ncv	AI 4,805,416	2/1989	Manz	62	292	
ncv	AJ 4,809,520	3/1989	Manz	62	292	
ncv	AK 4,878,356	11/1989	Punches	62	149	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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EXAMINER

William C. Dole

DATE CONSIDERED

7-12-92

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U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT

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APPLICANT

John P. Hancock and Ralph A. McClelland

FILING DATE

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GROUP

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WCS	BA	4,938,031	7/1990	Manz	62	145	
WCS	BB	4,939,905	7/1990	Manz	62	77	
WCS	BC	1,938,205	12/1933	Yeomans	62	292	
WCS	BD	2,,044,096	6/1936	Moran	210	150	
WCS	BE	2,321,964	6/1943	Zieber	62	115	
WCS	BF	2,341,429	2/1944	Elsey	62	170	
WCS	BG	2,341,430	2/1944	Elsey	62	170	
WCS	BH	2,865,442	12/1958	Halford	158	36.3	
WCS	BI	2,577,598	12/1951	Zwickle	62	117	
WCS	BJ	2,590,061	3/1952	Ash	62	7	
WCS	BK	2,917,110	12/1959	Brohl	158	36	

FOREIGN PATENT DOCUMENTS

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William C. D. [Signature]

DATE CONSIDERED

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John P. Hancock and Ralph A. McClelland

FILING DATE

7 December 1992

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WCD	CA	2,972,235	2/1961	B.D. Smith	62	84	
WCD	CB	2,986,894	6/1961	Endress, J.W.	62	85	
WCD	CC	3,177,680	4/1965	Rasovich, et al.	62	471	
WCD	CD	3,131,548	5/1964	Chubb, et al.	62	156	
WCD	CE	3,232,070	2/1966	Sparano	62	149	
WCD	CF	3,357,197	12/1967	Massengale	62	77	
WCD	CG	3,478,529	11/1969	Boykin	62	85	
WCD	CH	3,729,949	5/1973	Talbot	62	149	
WCD	CI	3,872,687	3/1975	Bottrum & Kozwski	62	243	
WCD	CJ	3,915,857	10/1975	Olson	710	62	
WCD	CK	4,110,998	9/1978	Owen	62	125	

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INFORMATION DISCLOSURE STATEMENT

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MAR 8 1993

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APPLICANT

John P. Hancock and Ralph A. McDielland

FILING DATE

7 December 1992

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WCD	DA	4,236,381	12/1980	Imral, et al.	62	324.1
WCD	DB	4,285,206	8/1981	Koser	62	126
WCD	DC	4,304,102	12/1981	Gray	62	195
WCD	DD	4,456,149	6/1984	Sciortino	222	1
WCD	DE	4,470,265	9/1984	Correla	62	77
WCD	DF	4,476,688	10/1984	Goddard	62	149
WCD	DG	4,480,446	11/1984	Margulefsky	62	474
WCD	DH	4,513,578	4/1985	Proctor	62	149
WCD	DI	RE32,451	7/1987	Proctor	62	149
WCD	DJ	4,539,817	9/1985	Staggs	62	149
WCD	DK	4,554,792	11/1985	Marguiefsky	62	77

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William E. Dole

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U.S. PATENT DOCUMENTS

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WCD	EA	4,614,231	9/1986	Proctor	165	153	
WCD	EB	4,624,112	11/1986	Proctor	62	149	
WCD	EC	4,646,527	3/1987	Taylor	62	85	
WCD	ED	4,776,733	8/1988	Scuderi	62	77	
WCD	EE	4,862,699	9/1989	Lounis	62	84	
WCD	EF	4,909,042	3/1990	Proctor	62	149	
WCD	EG	4,916,915	4/1990	Flinchbaugh	62	129	
WCD	EH	4,942,741	7/1990	Hancock & McClelland	62	212	
WCD	EI	RE33,212	5/1990	Lower	62	126	
WCD	EJ	5,036,675	8/1991	Anderson	62	85	
WCD	EK	5,005,375	4/1991	Manz, et al.	62	292	

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